

In the Abstract

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Abstract of the Disclosure

A method for manufacturing bent hollow bodies with inner and outer arcs forming inner arc wall regions and outer arc wall regions. The method including bending a starting hollow body, and, using at least one high internal pressure (HIP) forming process step, transforming the hollow body in an HIP tool to a final cross-sectional shape. The starting hollow body exhibits a readily bent cross-section at least in a region to be bent, in which by means of specific cross-sectional shaping, wall material lies closer to a neutral stress plane with reference to bending stresses than in the final cross-sectional shape. The HIP tool has a slide element. The method includes moving the slide element in the inner arc wall region of the bent starting hollow body, making contact at least with part of a surface area of the inner arc wall region, and withdrawing the slide element during the HIP process in the inner arc wall region in a direction of an opening of the bend, whereby the inner arc wall region of the bent starting hollow body is displaced in a direction of the withdrawing slide element by action of the high internal pressure.